INDEX TO VOLUME 84

A

Accipiter cooperii, 228
gentilis, 47
Acrocephalus arundinaceus, 41
Actitis macularia, 86
Aechmophorus occidentalis, 66–70, 127–130, 350–369, 370
Aethia cristatella, 197–202, 246, 247
pygmaea, 197–202
pusilla, 197–202
Agelaius phoeniceus, 16, 64, 86, 340
tricolor, 16
Ahlquist, Jon E., see Sibley, Charles G.
Aimophila quinquestriata, 226–236
ruficeps, 228
Aix galericulata, 48
sponsa, 48, 300–305, 340, 420
Akesson, Thomas R., and Dennis G. Raveling, Behaviors associated with seasonal reproduction and long-term monogamy in Canada Geese, 188–196
Albatross, Black-footed, see *Diomedea nigripes*
Laysan, see *Diomedea immutabilis*
Alcippe castaneceps, 41
Alectoris chukar, 332–337
Alkon, Philip U., Berry Pinshow, and A. Allan Degen, Seasonal water turnover rates and body water volumes in desert Chukars, 332–337
Amakihi, see *Loxops virens*
Amazilia tzacatl, 224
Ammodramus bairdii, 152
henslowii, 118
savannarum, 152, 240
Ammospiza bilineata, 228
leconteii, 152
Anas acuta, 48, 243
americana, 243
clypeata, 48, 113, 243
crecca, 113, 163
cyanoptera, 243
discors, 48
platyrhynchos, 48, 113, 163, 247, 303, 405, 421, 449
rubripes, 110–116, 420–426
strepera, 48
Anderson, Bertin W., see Laurenzi, Andrew W.
Ani, Smooth-billed, see *Crotophaga ani*
Anhinga anhinga, 91–96
Anhinga, see *Anhinga anhinga*
Anous stolidus, 340
Antpitta, Rufous-faced, see *Grallaria erythrotis*
Anser albifrons, 48
anser, 48
caerulescens, 48, 420
cygnoides, 48
fabalis, 340
rossii, 48
Antbird, Rufous-throated, see *Gymnopithys rufigula*
White-breasted, see *Rhegmatorhina hoffmannsi*
Anthropoides paradisea, 49
virgo, 49
Anthus pratensis, 63
novaeseelandiae, 51
spinoletta, 63
spragueii, 137, 152
trivialis, 51
Aphelocoma coerulescens, 217, 310
Apteryx australis, 237
Aquila chrysaetos, 239
pomarina, 266
verreauxii, 266
Ara ararauna, 273
Archilochus alexandri, 237–238
colubris, 83, 238
Ardea herodias, 86, 449
melanocephala, 259
Arenaria interpres, 344
Asio flammeus, 50
otus, 50
Asthenes dorbygni, 6
Athene cunicularia, 71, 204
Atthis heloisa, 122
Auklet, Cassin's, see *Ptychoramphus aleuticus*
Crested, see *Aethia cristatella*
Least, see *Aethia pusilla*
Parakeet, see *Cyclorrhynchus psittacula*
Whiskered, see *Aethia pygmaea*
Auriparus flaviceps, 41
Avery, Michael L., Nesting biology, seasonality and mating system of Malaysian Fantail Warblers, 106–109
Aythya affinis, 48
americana, 48
ferina, 48
fuligula, 48
valisineria, 48

B

Babbler, Black-capped, see *Pellorneum capistratum*
Black-throated, see *Stachyris nigriceps*
Common, see *Turdoides caudatus*
Scaly-crowned, see *Malacopteron cinereum*
Bailey, E. D., and Baker, James A., Recognition characteristics in covey dialects of Bobwhite quail, 317–320
Baker, James A., see Bailey, E. D.
Bancroft, Robert P., see Jamieson, Ian
Baptista, Luis F., see Ferrell, Robert
Barbet, Oriental Green, see *Megalaima zeylanica*
Bechard, Marc J., Effect of vegetative cover on foraging site selection by Swainson's Hawk, 153–159
Becker, Jonathan J., Birds of the Pleistocene American Falls local fauna, Idaho, 449
Beletsky, L. David, Vocalizations of female Northern Orioles, 445–447
Blackbird, see *Turdus merula*
Brewer's, see *Euphagus cyanocephalus*
Red-winged, see *Agelaius phoeniceus*
Tricolored, see *Agelaius tricolor*
Yellow-headed, see *Xanthocephalus xanthocephalus*
Blackcap, see *Sylvia atricapilla*
Bluebird, Mountain, *Sialia currucoides*
Bluethroat, see *Erithacus svecicus*
Bobolink, see *Dolichonyx oryzivorus*
Bobwhite, see *Colinus virginianus*
Bolborhynchus aymara, 5
Bombycilla cedrorum, 47, 86
Bonasa umbellus, 164
Brachyramphus brevirostris, 247
marmoratus, 247
Branta canadensis, 164, 176, 188–196, 420, 449
Braun, Clait E., see Gorenzel, Warner P.
Bubo virginianus, 46, 154
Bubulcus ibis, 184, 243, 259, 381
Bucher, Theresa L., and Andrea Worthington, Nocturnal hypothermia and oxygen consumption in manakins, 327–331
Budgerigar, see *Melopsittacus undulatus*
Bulbul, Red-vented, see *Pycnonotus cafer*
Red-whiskered, see *Pycnonotus jocosus*
Yellow-vented, see *Pycnonotus goiavier*
Bullfinch, see *Pyrrhula pyrrhula*
Bunting, Black-headed, see *Emberiza melanocephala*
Blue, see *Passerina parellina*

INDEX TO VOLUME 84

A

Accipiter cooperii, 228
gentilis, 47
Acrocephalus arundinaceus, 41
Actitis macularia, 86
Aechmophorus occidentalis, 66–70, 127–130, 350–369, 370
Aethia cristatella, 197–202, 246, 247
pygmaea, 197–202
pusilla, 197–202
Agelaius phoeniceus, 16, 64, 86, 340
tricolor, 16
Ahlquist, Jon E., see Sibley, Charles G.
Aimophila quinquestriata, 226–236
ruficeps, 228
Aix galericulata, 48
sponsa, 48, 300–305, 340, 420
Akesson, Thomas R., and Dennis G. Raveling, Behaviors associated with seasonal reproduction and long-term monogamy in Canada Geese, 188–196
Albatross, Black-footed, see *Diomedea nigripes*
Laysan, see *Diomedea immutabilis*
Alcippe castaneceps, 41
Alectoris chukar, 332–337
Alkon, Philip U., Berry Pinshow, and A. Allan Degen, Seasonal water turnover rates and body water volumes in desert Chukars, 332–337
Amakihi, see *Loxops virens*
Amazilia tzacatl, 224
Ammodramus bairdii, 152
henslowii, 118
savannarum, 152, 240
Ammospiza bilineata, 228
leconteii, 152
Anas acuta, 48, 243
americana, 243
clypeata, 48, 113, 243
crecca, 113, 163
cyanoptera, 243
discors, 48
platyrhynchos, 48, 113, 163, 247, 303, 405, 421, 449
rubripes, 110–116, 420–426
strepera, 48
Anderson, Bertin W., see Laurenzi, Andrew W.
Ani, Smooth-billed, see *Crotophaga ani*
Anhinga anhinga, 91–96
Anhinga, see *Anhinga anhinga*
Anous stolidus, 340
Antpitta, Rufous-faced, see *Grallaria erythrotis*
Anser albifrons, 48
anser, 48
caerulescens, 48, 420
cygnoides, 48
fabalis, 340
rossii, 48
Antbird, Rufous-throated, see *Gymnopithys rufigula*
White-breasted, see *Rhegmatorhina hoffmannsi*
Anthropoides paradisea, 49
virgo, 49
Anthus pratensis, 63
novaeseelandiae, 51
spinoletta, 63
spragueii, 137, 152
trivialis, 51
Aphelocoma coerulescens, 217, 310
Apteryx australis, 237
Aquila chrysaetos, 239
pomarina, 266
verreauxii, 266
Ara ararauna, 273
Archilochus alexandri, 237–238
colubris, 83, 238
Ardea herodias, 86, 449
melanocephala, 259
Arenaria interpres, 344
Asio flammeus, 50
otus, 50
Asthenes dorbygni, 6
Athene cunicularia, 71, 204
Atthis heloisa, 122
Auklet, Cassin's, see *Ptychoramphus aleuticus*
Crested, see *Aethia cristatella*
Least, see *Aethia pusilla*
Parakeet, see *Cyclorrhynchus psittacula*
Whiskered, see *Aethia pygmaea*
Auriparus flaviceps, 41
Avery, Michael L., Nesting biology, seasonality and mating system of Malaysian Fantail Warblers, 106–109
Aythya affinis, 48
americana, 48
ferina, 48
fuligula, 48
valisineria, 48

B

Babbler, Black-capped, see *Pellorneum capistratum*
Black-throated, see *Stachyris nigriceps*
Common, see *Turdoides caudatus*
Scaly-crowned, see *Malacopteron cinereum*
Bailey, E. D., and Baker, James A., Recognition characteristics in covey dialects of Bobwhite quail, 317–320
Baker, James A., see Bailey, E. D.
Bancroft, Robert P., see Jamieson, Ian
Baptista, Luis F., see Ferrell, Robert
Barbet, Oriental Green, see *Megalaima zeylanica*
Bechard, Marc J., Effect of vegetative cover on foraging site selection by Swainson's Hawk, 153–159
Becker, Jonathan J., Birds of the Pleistocene American Falls local fauna, Idaho, 449
Beletsky, L. David, Vocalizations of female Northern Orioles, 445–447
Blackbird, see *Turdus merula*
Brewer's, see *Euphagus cyanocephalus*
Red-winged, see *Agelaius phoeniceus*
Tricolored, see *Agelaius tricolor*
Yellow-headed, see *Xanthocephalus xanthocephalus*
Blackcap, see *Sylvia atricapilla*
Bluebird, Mountain, *Sialia currucoides*
Bluethroat, see *Erithacus svecicus*
Bobolink, see *Dolichonyx oryzivorus*
Bobwhite, see *Colinus virginianus*
Bolborhynchus aymara, 5
Bombycilla cedrorum, 47, 86
Bonasa umbellus, 164
Brachyramphus brevirostris, 247
marmoratus, 247
Branta canadensis, 164, 176, 188–196, 420, 449
Braun, Clait E., see Gorenzel, Warner P.
Bubo virginianus, 46, 154
Bubulcus ibis, 184, 243, 259, 381
Bucher, Theresa L., and Andrea Worthington, Nocturnal hypothermia and oxygen consumption in manakins, 327–331
Budgerigar, see *Melopsittacus undulatus*
Bulbul, Red-vented, see *Pycnonotus cafer*
Red-whiskered, see *Pycnonotus jocosus*
Yellow-vented, see *Pycnonotus goiavier*
Bullfinch, see *Pyrrhula pyrrhula*
Bunting, Black-headed, see *Emberiza melanocephala*
Blue, see *Passerina parellina*

Golden-breasted, see *Emberiza flaviventris*
Indigo, see *Passerina cyanea* or *P. cyanella*
Lark, see *Calamospiza melanocorys*
Lazuli, see *Passerina amoena*
Orange-breasted, see *Passerina leclancherii*
Ortolan, see *Emberiza hortulana*
Painted, see *Passerina ciris*
Pine, see *Emberiza leucocephala*
Red-headed, see *Emberiza bruniceps*
Rose-bellied, see *Passerina rositae*
Snow, see *Plectrophenax nivalis*
Varied, see *Passerina versicolor*
Burger, Joanna, see Parsons, Katharine C.
Burhinus oedicnemus, 54
Bushtit, Common, see *Psaltriparus minimus*
Buteo buteo, 48, 343
hemilasius, 239
jamaicensis, 48, 218, 261, 266, 340, 343
lagopus, 48
lineatus, 270
magnirostris, 267
regalis, 158, 266, 343
swainsoni, 153–159, 266, 343
Buteogallus anthracinus, 266
meridionalis, 261–271
urubitinga, 270, 273
Butorides striatus, 257
Buzzard, Common, see *Buteo buteo*
Upland, see *Buteo hemilasius*
Byrd, G. Vernon, see Knudtson, Eric P.

C

Cacicus cela, 444
haemorrhous, 278
Cacique, Yellow-rumped, see *Cacicus cela*
Calamospiza melanocorys, 38
Calcarius lapponicus, 152
mccownii, 152
ornatus, 152
pictus, 137, 152
Calidris alpina, 344
Calypte anna, 208–225
costae, 222
Campephilus rubricollis, 278
Canary, see *Serinus canaria*
Canastero, Creamy-breasted, see *Asthenes dorbygni*
Canvasback, see *Aythya valisineria*
Capella gallinago, 152
Caracara, Crested, see *Polyborus plancus*
Caraco, Thomas, Flock size and the organization of behavioral sequences in juncos, 101–105
Cardinal, see *Cardinalis cardinalis*
Cardinalis cardinalis, 47, 83, 152, 445
Carduelis canabina, 52
chloris, 47, 52
flammea, 52
pinus, 448
spinus, 52
tristis, 152
Carpodacus erythrinus, 52
mexicanus, 52, 86, 217
Casmerodius albus, 257, 381
Catbird, Gray, see *Dumetella carolinensis*
Catharacta maccormicki, 179
skua, 247
Cathartes aura, 237
Catharus fuscescens, 86
guttatus, 448
ustulatus, 448
Catherpes mexicanus, 86
Catoptrophorus semipalmatus, 344
Cepphus grylle, 186
Cerorhinca monocerata, 247
Certhia familiaris, 41, 86
Chachalaca, Little, see *Ortalis motmot*
Chaetura pelagica, 83
Chaffinch, see *Fringilla coelebs*
Chamaea fasciata, 40–44
Chandler, Robert M., A second record of Pleistocene Passenger Pigeon from California, 242
Charadrius asiaticus, 344
hiaticula, 49
montanus, 71–74
semipalmatus, 49, 344
vociferus, 49, 71, 86
wilsonia, 344
Chat, Yellow-breasted, see *Icteria virens*
Chicken, see *Gallus gallus*
Chickadee, Black-capped, see *Parus atricapillus*
Carolina, see *Parus carolinensis*
Chestnut-backed, see *Parus rufescens*
Mountain, see *Parus gambeli*
Chiffchaff, see *Phylloscopus collybita*
Chirocylla uropygialis, 6
Chondestes grammacus, 86
Chondrohierax uncinatus, 131
Chordeiles minor, 86
Chrysolophus amherstiae, 340
pictus, 340
Chukar, see *Alectoris chukar*
Ciconia maltha, 449
Circus cyaneus, 239
Cisticola juncidis, 106–109
Clangula hyemalis, 243, 247, 425
Coccyzus americanus, 83
Colaptes auratus, 83, 86, 152
Colibri thalassinus, 223
Colinus virginianus, 83, 147, 317–320
Columba cayannensis, 49
fasciata, 242
leucocephala, 242
livia, 49, 83, 237, 342, 405
palumbus, 49, 407
picazuro, 49
speciosa, 49
Columbina minuta, 49
passerina, 49, 152
picui, 49
talpacoti, 49
Comet, Red-tailed, see *Sappho sparganura*
Coot, American, see *Fulica americana*
Contopus sordidulus, 86
virens, 83
Coracias benghalensis, 50
garrulus, 50
Coragyps atratus, 449
Cormorant, Cape, see *Phalacrocorax capensis*
Double-crested, see *Phalacrocorax auritus*
Corvus brachyrhynchos, 114, 320
corax, 50, 61
monedula, 20
Coturnix coturnix, 176, 407
Cowbird, Brown-headed, see *Molothrus ater*
Craig, E. H., see Craig, T. H.
Craig, T. H., E. H. Craig, and Jeffrey S. Marks, Aerial talon-grappling in Northern Harriers, 239
Crane, Common, see *Grus grus*
Demoiselle, see *Anthropoides virgo*
Japanese, see *Grus japonensis*
Paradise, see *Anthropoides paradisea*
Sandhill, see *Grus canadensis*
Sarus, see *Grus antigone*
White-naped, see *Grus vipio*
Whooping, see *Grus americana*
Creeper, Brown, see *Certhia familiaris*
Crotophaga ani, 327
Crow, Common, see *Corvus brachyrhynchos*
Cuckoo, Yellow-billed, see *Coccyzus americanus*

Curlew, Stone, see *Burhinus oedicnemus*
Cyanocitta cristata, 83
stelleri, 448
Cyclorrhynchus psittacula, 197, 247
Cygnus buccinator, 340

D

Dabchick, Australian, see *Tachybaptus novaehollandiae*
New Zealand, see *Poliocephalus rufopectus*
D'Agostino, Gloria M., S. W. Eaton, and Lorraine E. Giovinazzo, Unusual behaviors at a robin's nest, 342
Darley, J. A., Territoriality and mating behavior of the male Brown-headed Cowbird, 15–21
Davis, Lloyd S., Timing of nest relief and its effect on breeding success in Adelie Penguins (*Pygoscelis adeliae*), 178–183
Degen, A. Allan, see Alkon, Philip U.
Dendrocincla fuliginosa, 273, 278, 279
merula, 277, 278, 279
turdina, 284
Dendrocolaptes certhia, 272–285
hoffmannsi, 272, 278, 283
picumnus, 272–285
platyrostris, 272–285
Dendroica cerulea, 83
coronata, 152, 217, 394
petechia, 86
townsendi, 448
Diglossa brunneiventris, 1–14
carbonaria, 1–14
duidae, 11
gloriosa, 1–14
humeralis, 1–14
lafresnayii, 2–14
Diomedea immutabilis, 121–122
nigripes, 121–122, 247
Dolichonyx oryzivorus, 22–39
Donham, Richard S., see Moore, Michael C.
Dove, Gray-fronted, see *Leptotila rufaxilla*
Ground, see *Columbina passerina*
Inca, see *Scardafella inca*
Mourning, see *Zenaida macroura*
Ring, see *Streptopelia risoria*
Rock, see *Columba livia*
White-fronted, see *Leptotila verreauxi*
White-winged, see *Zenaida asiatica*
Dowitcher, Short-billed, see *Limnodromus griseus*
Drobney, Ronald D., Body weight and composition changes and adaptations for breeding in Wood Ducks, 300–305
Dromaius novahollandiae, 176, 437
Dryocopus pileatus, 83
Duck, Black, see *Anas rubripes*
Maccoa, see *Oxyura maccoa*
Mandarin, see *Aix galericulata*
Pekin, see *Anas platyrhynchos*
Tufted, see *Aythya fuligula*
Wood, see *Aix sponsa*
Dumetella carolinensis, 42, 83, 86
Dunlin, see *Calidris alpina*

E

Eagle, African Fish, see *Haliaeetus vocifer*
Bald, see *Haliaeetus leucocephalus*
Golden, see *Aquila chrysaetos*
Lesser Spotted, see *Aquila pomarina*
Verreaux's, see *Aquila verreauxii*
White-tailed Sea, see *Haliaeetus albicilla*
Earthcreeper, Rock, see *Upucerthia andaecola*
Eaton, S. W., see D'Agostino, Gloria M.
Ectopistes migratorius, 242
Edwards, Ernest P., Hummingbirds feeding on an excretion produced by scale insects, 122
Egret, Cattle, see *Bubulcus ibis*
Great, see *Casmerodius albus*
Snowy, see *Egretta thula*
Egretta thula, 257, 381
Eider, Common, see *Somateria mollissima*
Elaenia flavogaster, 41
Elaenia, Yellow-bellied, see *Elaenia flavogaster*
Ellis, Janet A., The thermal nest environment and parental behavior of a burrowing bird, the Bank Swallow, 441–443
Emberiza bruniceps, 170
citrinella, 52
flaviventris, 52
hortulana, 52
leucocephala, 52
melanocephala, 168–171
Empidonax alnorum, 50
difficilis, 286–291, 448
flaviventris, 50
minimus, 50
traillii, 50, 286–291
virescens, 83
Emu, see *Dromaius novahollandiae*
Eremophila alpestris, 71, 86, 152
Erithacus calliope, 51
rubecula, 41
svecicus, 51
Eudromia elegans, 340
Eudyptes pachyrhynchus, 172–177
Eugenes, fulgens, 237
Euphagus cyanocephalus, 19, 86

F

Falco biarmicus, 48
chicquera, 48
femoralis, 257, 443–444
peregrinus, 201, 239
sparverius, 48, 218
tinnunculus, 48
Falcon, Aplomado, see *Falco femoralis*
Lanner, see *Falco biarmicus*
Peregrine, see *Falco peregrinus*
Red-headed, see *Falco chicquera*
Farner, Donald S., see Moore, Michael C. or Wingfield, John C.
Ferrell, Robert, and Luis F. Baptista, Diurnal rhythms in the vocalizations of Budgerigars, 123–124
Ficedula hypoleuca, 164, 310, 316
Fieldfare, see *Turdus pilaris*
Finch, House, see *Carpodacus mexicanus*
Mongolian Trumpeter, see *Rhodopechys mongolica*
Trumpeter, see *Rhodopechys githaginea*
Fire-Finch, Red-billed, see *Lagonosticta senegala*
Flicker, Common, see *Colaptes auratus*
Florida caerulea, 257, 381–384
Flower-piercer, Carbonated, see *Diglossa carbonaria*
Glossy, see *Diglossa lafresnayii*
Flycatcher, Acadian, see *Empidonax virescens*
Alder, see *Empidonax alnorum*
Great Crested, see *Myiarchus crinitus*
Least, see *Empidonax minimus*
Pied, see *Ficedula hypoleuca*
Spotted, see *Muscicapa striata*
Western, see *Empidonax difficilis*
Willow, see *Empidonax traillii*
Yellow-bellied, see *Empidonax flaviventris*
Fowl, Domestic, see *Gallus domesticus*
Red Jungle, see *Gallus gallus*
Frakes, Robert A., and Richard E. Johnson, Niche convergence in *Empidonax* Flycatchers, 286–291
Fratercula corniculata, 198, 247, 445
Fringilla coelebs, 99, 164, 416

Fulica americana, 59–65, 69
atra, 69
Fulmar, Northern, see *Fulmarus glacialis*
Fulmarus glacialis, 245–254
Fulvetta, Rufous-winged, see *Alcippe castaneceps*

G

Gadwall, see *Anas strepera*
Gallinago gallinago, 54
Gallinule, Purple, see *Porphyrula martinica*
Gallus domesticus, 48, 405
gallus, 48, 121, 175
Garrulax leucolophus, 41
Gavia immer, 97–100
Geococcyx californianus, 203–207
Geranospiza caerulescens, 266
Gibbs, H. Lisle, see Robertson, Raleigh J.
Gilmer, David S., see Konrad, Paul M.
Giovinazzo, Lorraine E., see D'Agostino, Gloria M.
Gnatcatcher, Black-tailed, see *Polioptila melanura*
Blue-gray, see *Polioptila caerulea*
Goldfinch, American, see *Carduelis tristis*
Goldsmith, Kenneth M., and Timothy H. Goldsmith, Sense of smell in the Black-chinned Hummingbird, 237–238
Goldsmith, Timothy H., see Goldsmith, Kenneth M.
Goose, Canada, see *Branta canadensis*
Graylag, see *Anser anser*
Ross', see *Anser rossii*
Snow, see *Anser caerulescens*
Swan, see *Anser cygnoides*
White-fronted, see *Anser albifrons*
Gorenzel, Warner P., Ronald A. Ryder, and Clait E. Braun, Reproduction and nest site characteristics of American Coots at different altitudes in Colorado, 59–65
Goshawk, see *Accipiter gentilis*
Grackle, Common, see *Quiscalus quiscula*
Grallaria erythrotis, 6
Grant, Gilbert S., Charles V. Paganelli, Ted N. Pettit, G. Causey Whittow, and Hermann Rahn, Determination of fresh egg mass during natural incubation, 121–122
Grassquit, Black-black, see *Volatinia jacarina*
Grau, C. R., Egg formation in Fiordland Crested Penguins (*Eudyptes pachyrhynchus*), 172–177
Graves, Gary R., Speciation in the Carbonated Flowerpiercer (*Diglossa carbonaria*) complex of the Andes, 1–14
Grebe, Atitlan, see *Podilymbus gigas*
Eared, see *Podiceps nigricollis*
Great, see *Podiceps major*
Great Crested, see *Podiceps cristatus*
Hooded, see *Podiceps gallardoi*
Horned, see *Podiceps auritus*
Least, see *Tachybaptus dominicus*
Little, see *Tachybaptus ruficollis*
Madagascar Little, see *Tachybaptus pelzelni*
Pied-billed, see *Podiceps podiceps* or *Podilymbus podiceps*
Puma (Taczanowski's), see *Podiceps taczanowskii*
Red-necked, see *Podiceps grisegena*
Rolland's, see *Rollandia rolland*
Silvery, see *Podiceps occipitalis*
Western, see *Aechmophorus occidentalis*
White-tufted, see *Rollandia rolland*
Greenfinch, see *Carduelis chloris*
Greenquist, Eric A., Displays, vocalizations and breeding biology of the Great Grebe (*Podiceps major*), 370–380
Grosbeak, Black-headed, see *Pheucticus melanocephalus*
Blue, see *Passerina caerulea*
Blue-black, see *Passerina cyanoides*
Evening, see *Hesperiphona vespertina*
Indigo, see *Passerina glaucocaerulea*
Ultramarine, see *Passerina cyanea*
Groschupf, Kathleen and G. Scott Mills, Singing behavior of the Five-striped Sparrow, 226–236
Ground-Dove, Common, see *Columbina passerina*
Picui, see *Columbina picui*
Plain-breasted, see *Columbina minuta*
Ruddy, see *Columbina talpacoti*
Grouse, Ruffed, see *Bonasa umbellus*
Grus americana, 427
antigone, 49
canadensis, 49, 427–434
grus, 49
japonenesis, 49
vipio, 49
Grzybowski, Joseph A., Population structure in grassland bird communities during winter, 137–152
Guillemot, Black, see *Cepphus grylle*
Gull, Black-headed, see *Larus ridibundus*
California, see *Larus californicus*
Glaucous-winged, see *Larus glaucescens*
Great Black-backed, see *Larus marinus*
Herring, see *Larus argentatus*
Lesser Black-backed, see *Larus fuscus*
Mew, see *Larus canus*
Ring-billed, see *Larus delawarensis*
Western, see *Larus occidentalis*
Gymnopithys rufigula, 273, 278
Gyps coprotheres, 48
fulvus, 48

H

Haliaeetus albicilla, 48
leucocephalus, 48, 125–127, 201
vocifer, 48
Hancock, James A., see Kushlan, James A.
Harrier, Northern, see *Circus cyaneus*
Harrison, Craig S., Spring distribution of marine birds in the Gulf of Alaska, 245–254
Hawk, Black, see *Buteogallus anthracinus*
Black-faced, see *Leucopternis melanops*
Cooper's, see *Accipiter cooperii*
Crane, see *Geranospiza caerulescens*
Ferruginous, see *Buteo regalis*
Great Black, see *Buteogallus urubitinga*
Harris', see *Parabuteo unicinctus*
Marsh, see *Circus cyaneus*
Red-shouldered, see *Buteo lineatus*
Red-tailed, see *Buteo jamaicensis*
Roadside, see *Buteo magnirostris*
Rough-legged, see *Buteo lagopus*
Savannah, see *Buteogallus meridionalis*
Swainson's, see *Buteo swainsoni*
Hector, Dean P., Botfly (Diptera, Muscidae) parasitism of nestling Aplomado Falcons, 443–444
Hennemann, Willard W., III, Energetics and spread-winged behavior of Anhingas in Florida, 91–96
Heron, Black-crowned Night, see *Nycticorax nycticorax*
Black-headed, see *Ardea melanocephala*
Capped, see *Pilherodius pileatus*
Great Blue, see *Ardea herodias*
Little Blue, see *Florida caerulea*
Striated, see *Butorides striatus*
Whistling, see *Syrigma sibilatrix*
Hesperiphona vespertina, 86
Hetrick, Melinda S., see Jackson, Jerome A.
Hirundo rustica, 86
Histrionicus histrionicus, 247
Hodges, John I., Jr., Bald Eagle nesting studies in Seymour Canal, southeast Alaska, 125–127
Honeyeater, Mimic, see *Meliphaga analoga*
Hoopoe, see *Upupa epops*
Hughes, R. A., Broad-billed Prion at Mollendo, Peru:

First record for the Pacific coast of South America, 130
Hummingbird, Amethyst-throated, see *Lampornis amethystinus*
Anna's, see *Calypte anna*
Black-chinned, see *Archilochus alexandri*
Blue-throated, see *Lampornis clemenciae*
Bumblebee, see *Atthis heloisa*
Fiery-throated, see *Panterpe insignis*
Rivoli's, see *Eugenes fulgens*
Ruby-throated, see *Archilochus colubris*
Rufous, see *Selasphorus rufus*
Rufous-tailed, see *Amazilia tzacatl*
Hylexetastes perrotii, 272, 275, 278, 285
Hylocichla mustelina, 83, 448

I

Icteria virens, 86
Icterus cucullatus, 217
galbula, 86, 343, 445–447
parisorum, 446
spurius, 446
Ictinia mississippiensis, 343
Iridoprocne bicolor, 313–316, 448
Ixoreus naevius, 86, 448

J

Jackson, Jerome A., Bernard E. Rowe, Melinda S. Hetrick, and Bette J. Schardien, Site-specific nest defense behavior of Black Skimmers and Least Terns, 120
Jackdaw, see *Corvus monedula*
Jamieson, Ian, Norman Seymour, and Robert P. Bancroft, Time and activity budgets of Ospreys nesting in northeastern Nova Scotia, 439–441
Jay, Blue, see *Cyanocitta cristata*
Scrub, see *Aphelocoma coerulescens*
Steller's, see *Cyanocitta stelleri*
Johnson, Richard E., see Frakes, Robert A.
Junco caniceps, 47
hyemalis, 46, 47, 52, 86, 101
phaeonotus, 46, 47, 52, 101–105
vulcani, 52
Junco, Dark-eyed, see *Junco hyemalis*
Gray-headed, see *Junco caniceps*
Volcano, see *Junco vulcani*
Yellow-eyed, see *Junco phaeonotus*
Jungle-Babbler, Ferruginous, see *Trichastoma bicolor*
Short-tailed, see *Trichastoma malaccense*

K

Kamil, Alan C., and Charles van Riper III, Within-territory division of foraging space by male and female Amakihi (*Loxops virens*), 117–119
Kenopia striata, 41
Kerlinger, Paul, The migration of Common Loons through eastern New York, 97–100
Kessler, Winifred B., and Kathleen A. Milne, Morning versus evening detectability of southeast Alaskan birds, 447–448
Kestrel, American, see *Falco sparverius*
Common, see *Falco tinnunculus*
Killdeer, see *Charadrius vociferus*
King, James R., see Murphy, Mary E.
Kingbird, Eastern, see *Tyrannus tyrannus*
Western, see *Tyrannus verticalis*
Kinglet, Golden-crowned, see *Regulus satrapa*
Ruby-crowned, see *Regulus calendula*
Kite, Hook-billed, see *Chondrohierax uncinatus*
Mississippi, see *Ictinia mississippiensis*
Kittiwake, Black-legged, see *Rissa tridactyla*
Red-legged, see *Rissa brevirostris*
Kiwi, Brown, see *Apteryx australis*
Knowles, Craig J., Charles J. Stoner, and Steven P. Gieb, Selective use of black-tailed prairie dog towns by Mountain Plovers, 71–74
Knudtson, Eric P., and G. Vernon Byrd, Breeding biology of Crested, Least and Whiskered auklets on Buldir Island, Alaska, 197–202
Konrad, Paul M., and David S. Gilmer, Nesting associations between passerines and birds of prey in central North Dakota, 343
Kovach, Steven D., see Stewart, Brent S.
Kramer, Gary W., Oldsquaw record from Sinaloa, Mexico, 243
Kumar, Vinod, see Tewary, Prabha D.
Kushlan, James A., James A. Hancock, J. Pinowski, and B. Pinowska, Behavior of Whistling and Capped herons in the seasonal savannas of Venezuela and Argentina, 255–260

L

Lagonosticta senegala, 310
Lampornis amethystinus, 122
clemenciae, 237
Lanius collurio, 41, 51
cristatus, 51
minor, 51
schach, 51
Lapwing, see *Vanellus vanellus*
Lark, Horned, see *Eremophila alpestris*
Larus argentatus, 49, 94, 186
californicus, 69
canus, 49, 247, 340
delawarensis, 69
fuscus, 49
glaucescens, 200, 246, 247, 249, 340
heermanni, 340
hyperboreus, 247
marinus, 49
occidentalis, 186, 243, 340
ridibundus, 49
Laughingthrush, White-crested, see *Garrulax leucolophus*
Laurenzi, Andrew W., Bertin W. Anderson, and Robert D. Ohmart, Wintering biology of Ruby-crowned Kinglets in the lower Colorado River valley, 385–398
Leptasthenura fuliginiceps, 6
Leptotila rufaxilla, 49
verreauxi, 49
Leucopternis albicollis, 273
melanops, 280
Lewis, Dale M., Dispersal in a population of White-browed Sparrow Weavers, 306–312
Lewke, Robert E., A comparison of foraging behavior among permanent, summer and winter resident bird groups, 84–90
Limnodromus griseus, 344
Lindvall, Mark L., and Jessop B. Low, Nesting ecology and production of Western Grebes at Bear River Migratory Bird Refuge, Utah, 66–70
Linnet, Eurasian, see *Carduelis canabina*
Lobipes lobatus, 247, 252
Lonchura malabarica, 47, 51
malacca, 51, 170
punctulata, 47, 51, 170
striata, 47, 51
Longcore, Jerry R., see Ringelman, James K.
Loon, Common, see *Gavia immer*
Lophortyx californicus, 48, 86, 405
gambelli, 48
Longspur, Chestnut-collared, see *Calcarius ornatus*
Lapland, see *Calcarius lapponicus*
McCown's, see *Calcarius mccowni*
Smith's, see *Calcarius pictus*
Low, Jessop B., see Lindvall, Mark L.

Loxops virens, 117–119
Lunda cirrhata, 245–254, 340, 444

M

Macaw, see *Ara ararauna*
Macronous gularis, 42
Mader, William J., Ecology and breeding habits of the Savannah Hawk in the llanos of Venezuela, 261–271
Magpie, Black-billed, see *Pica pica*
Malacopteron cinereum, 41
Mallard, see *Anas platyrhynchos*
Mallory, Elizabeth P., see Schneider, David
Manacus vitellinus, 327–331
Manakin, Golden-collared, see *Manacus vitellinus*
Red-capped, see *Pipra mentalis*
Marks, Jeffrey S., see Craig, T. H.
McKitrick, Mary C., see Steadman, David W.
Meadowlark, Eastern, see *Sturnella magna*
Western, see *Sturnella neglecta*
Megalaima zeylanica, 47
Melanerpes carolinus, 83
erythrocephalus, 83
formicivorus, 310
Melanitta deglandi, 247
nigra, 247
perspicillata, 247
Meleagris gallopavo, 147, 164, 176, 405, 449
Meliphaga analoga, 41
Melopsittacus undulatus, 123–124
Melospiza lincolnii, 152, 448
melodia, 63, 83, 86, 336
Merganser, Common, see *Mergus merganser*
Hooded, see *Mergus cucullatus*
Mergus cucullatus, 48
merganser, 48
Micrastur ruficollis, 273
Mills, G. Scott, see Groschupf, Kathleen
Milne, Kathleen A., see Kessler, Winifred B.
Mimus dorsalis, 5
polyglottos, 217
Mockingbird, see *Mimus polyglottos*
Brown-backed, see *Mimus dorsalis*
Molothrus ater, 15–21, 83, 86
Monarcha guttula, 42
Monasa atra, 273, 278
Monarch, Spot-winged, see *Monarcha guttula*
Moore, Michael C., Richard S. Donham, and Donald S. Farner, Physiological preparation for autumnal migration in White-crowned Sparrows, 410–419
Motacilla alba, 41, 51
flava, 51
maderaspatensis, 51
Munia, Black-headed, see *Lonchura malacca*
Chestnut, see *Lonchura malacca*
Spotted, see *Lonchura punctulata*
White-throated, see *Lonchura malabarica*
White-rumped, see *Lonchura striata*
Murphy, Mary E., and James R. King, Amino acid composition of the plumage of the White-crowned Sparrow, 435–438
Murray, Bertram G., Jr., Territorial behavior of the Blue-black Grassquit, 119
Muscicapa striata, 42
Myiarchus crinitus, 83

N

Nasica longirostris, 277, 278
Nectarinia jugularis, 42
Nuechterlein, Gary L., and Robert W. Storer, The pair-formation displays of the Western Grebe, 350–369
Nighthawk, Common, see *Chordeiles minor*
Numenius phaeopus, 344
Nunbird, Black, see *Monasa atra*
Nuthatch, White-breasted, see *Sitta carolinensis*
Nyctea scandiaca, 54
Nycticorax nycticorax, 61, 184–187

O

Oceanodroma furcata, 245–254
leucorhoa, 247, 253
Oenanthe oenanthe, 51
isabellina, 51
Ohmart, Robert D., see Laurenzi, Andrew W.
Oldsquaw, see *Clangula hyemalis*
Oporornis formosus, 83
Oriole, Black-headed, see *Oriolus xanthornus*
Hooded, see *Icterus cucullatus*
Northern, see *Icterus galbula*
Orchard, see *Icterus spurius*
Scott's, see *Icterus parisorum*
Oriolus xanthornus, 47
Oropendola, Chestnut-headed, see *Psarocolius wagleri*
Ortalis motmot, 273
Osprey, see *Pandion haliaetus*
Otus choliba, 267
Owen, Ray B., Jr., see Reinecke, Kenneth J. or Ringelman, James K.
Owl, Burrowing, see *Athene cunicularia*
Great Gray, see *Strix nebulosa*
Great Horned, see *Bubo virginianus*
Long-eared, see *Asio otus*
Short-eared, see *Asio flammeus*
Snowy, see *Nyctea scandiaca*
Tawny, see *Strix aluco*
Ural, see *Strix uralensis*
Oxyura maccoa, 420

P

Pachyptila belcheri, 130
vittata, 130
Paganelli, Charles V., see Grant, Charles V.
Paganelli, C. V., see Rahn, H.
Palaeostruthus eurius, 240
hatcheri, 240
Pandion haliaetus, 292–299, 439–441
Panterpe insignis, 222, 224
Parabuteo unicinctus, 266
Parakeet, Gray-hooded, see *Bolborhynchus aymara*
Moustached, see *Psittacula alexandri*
Plum-headed, see *Psittacula cyanocephala*
Rose-ringed, see *Psittacula krameri*
Parisi, Phyllis, see Rahn, H.
Parsons, Katharine C., and Joanna Burger, Human disturbance and nesting behavior in Black-crowned Night Herons, 184–187
Partridge, Gray, see *Perdix perdix*
Parus atricapillus, 86
bicolor, 41, 83
carolinensis, 83
gambeli, 86
major, 32, 50, 310
palustris, 50
rufescens, 448
Passer domesticus, 42, 51, 83, 156, 160–167, 343
hispaniolensis, 51
montanus, 51, 343, 437
Passerella iliaca, 448
Passerculus sandwichensis, 137, 152
Passerina amoena, 86, 240, 241
brissonii, 241
caerulea, 240, 241
ciris, 241
cyanea, 83, 226, 240, 241
cyanoides, 241

glaucocaerulea, 241
leclancherii, 241
parellina, 241
rositae, 241
versicolor, 241
Pavo muticus, 340
Pelecanus occidentalis, 340
Pellorneum capistratum, 41
Penguin, Adelie, see *Pygoscelis adeliae*
Fiordland Crested, see *Eudyptes pachyrhynchus*
Percnostola rufifrons, 278
Perdix perdix, 156
Petrel, Scaled, see *Pterodroma inexpectata*
Petrochelidon pyrrhonota, 86
Pettit, Ted N., see Grant, Gilbert S.
Pewee, Eastern Wood, see *Contopus virens*
Western Wood, see *Contopus sordidulus*
Phacellodomus striaticeps, 6
Phaethon rubricauda, 340
Phainopepla, see *Phainopepla nitens*
Phainopepla nitens, 336
Phalacrocorax africanus, 95
auritus, 95
capensis, 95
lucidus, 95
neglectus, 95
Phalarope, Northern, see *Lobipes lobatus*
Pharomachrus pavoninus, 278
Phasianus colchicus, 86, 156, 407
Pheasant, Ring-necked, see *Phasianus colchicus*
Pheucticus melanocephalus, 86
Philherodius pileatus, 255–260
Phoebe, Say's, see *Sayornis saya*
Phoeniculus purpureus, 310
Phylloscopus collybita, 41
Pica pica, 61, 86, 343
Picoides major, 50
minor, 50
pubescens, 50, 83, 86
villosus, 50, 83, 86, 448
Pigeon, Band-tailed, see *Columba fasciata*
Domestic, see *Columba livia*
Passenger, see *Ectopistes migratorius*
Picazuro, see *Columba picazuro*
Rufous, see *Columba cayennensis*
Scaled, see *Columba speciosa*
White-crowned, see *Columba leucocephala*
Wood, see *Columba palumbus*
Yellow-legged Green, see *Treron phoenicoptera*
Piha, Scimitar-winged, see *Chirocylla uropygialis*
Pinowska, B., see Kushlan, James A.
Pinowski, J., see Kushlan, James A.
Pinshow, Berry, see Alkon, Philip U.
Pintail, see *Anas acuta*
Pipilo erythrophthalmus, 83, 86, 217
fuscus, 217
Pipit, Meadow, see *Anthus pratensis*
Richard's, see *Anthus novaeseelandiae*
Sprague's, see *Anthus spragueii*
Tree, see *Anthus trivialis*
Water, see *Anthus spinoletta*
Pipra mentalis, 327–331
Piranga olivacea, 83
Pithys albifrons, 273, 278
Plectrophenax nivalis, 143
Plocepasser mahali, 306–312
Ploceus philippinus, 170
Plover, Black-bellied, see *Pluvialis squatarola*
Caspian, see *Charadrius asiaticus*
Mountain, see *Charadrius montanus*
Ringed, see *Charadrius hiaticula*
Semipalmated, see *Charadrius semipalmatus*
Wilson's, see *Charadrius wilsonia*
Pluvialis squatarola, 344
Pochard, European, see *Aythya ferina*
Podiceps auritus, 48, 353, 354, 367
Podiceps cristatus, 48, 68, 353, 378
gallardoi, 353, 367
grisegena, 48, 353
major, 353, 370–380
nigricollis, 129, 353, 367, 373
occipitalis, 68, 353, 367
oligocaenus, 367
podiceps, 353
taczanowskii, 353, 367
Podilymbus gigas, 352
podiceps, 129
Polioptila caerulea, 83
Poliocephalus rufopectus, 355
Polioptila melanura, 41
Polyborus plancus, 266
Pooecetes gramineus, 152
Porphyrula martinica, 265
Prion, Broad-billed, see *Pachyptila vittata*
Slender-billed, see *Pachyptila belcheri*
Psaltriparus minimus, 41
Psarocolius wagleri, 444
Psittacula alexandri, 50
cyanocephala, 50
krameri, 50
Pterodroma inexpectata, 246–254
Ptychoramphus aleuticus, 176, 340
Puffin, Horned, see *Fratercula corniculata*
Tufted, see *Lunda cirrhata*
Puffinus bulleri, 247
creatopus, 247
griseus, 245–254
tenuirostris, 245–254
Pycnonotus cafer, 51
goiavier, 170
jocosus, 51
Pygoscelis adeliae, 178–183
Pyrrhula pyrrhula, 320

Q

Quail, California, see *Lophortyx californicus*
Gambel's, see *Lophortyx gambelli*
Japanese, see *Coturnix coturnix*
Quay, W. B., Seasonal calling, foraging, and flocking of Inca Doves at Galveston, Texas, 321–326
Quelea, Red-billed, see *Quelea quelea*
Quelea quelea, 170, 421
Quiscalus quiscula, 19, 83

R

Rahn, H., Phyllis Parisi, and C. V. Paganelli, Estimating the initial density of birds' eggs, 339–341
Rahn, Hermann, see Grant, Gilbert S.
Ramphocelus carbo, 278
Raveling, Dennis G., see Akesson, Thomas R.
Raven, Common, see *Corvus corax*
Redhead, see *Aythya americana*
Redpoll, Common, see *Carduelis flammea*
Redshank, see *Tringa totanus*
Redwing, see *Turdus iliacus*
Reed-Warbler, Great, see *Acrocephalus arundinaceus*
Regulus calendula, 41, 86, 385–398
satrapa, 86, 394, 448
Reinecke, Kenneth J., Timothy L. Stone, and Ray B. Owen, Jr., Seasonal carcass composition and energy balance of female Black Ducks in Maine, 420–426
Rhegmatorhina hoffmannsi, 284
Rhodopechys githaginea, 52
mongolica, 52
Ricklefs, Robert E., Observations on handling procedures and composition of European Starling eggs, 338–339

Ringelman, James K., Jerry R. Longcore, and Ray B. Owen, Jr., Nest and brood attentiveness in female Black Ducks, 110–116
Riparia riparia, 441–443
Rissa brevirostris, 249–250
tridactyla, 182, 245–254, 340
Roadrunner, see *Geococcyx californianus*
Robertson, Raleigh J., and H. Lisle Gibbs, Superterritoriality in Tree Swallows: A reexamination, 313–316
Robin, American, see *Turdus migratorius*
Eurasian, see *Erithacus rubecula*
Rollandia rolland, 68, 353
Roller, Eurasian, see *Coracias garrulus*
Indian, see *Coracias benghalensis*
Rosefinch, Common, see *Carpodacus erythrinus*
Rowe, Bernard E., see Jackson, Jerome A.
Rubythroat, Siberian, see *Erithacus calliope*
Ryder, Ronald A., see Gorenzel, Warner P.
Rynchops nigra, 120

S

Salpinctes obsoletus, 226
Sandpiper, Spotted, see *Actitis macularia*
Sappho sparganura, 5
Sapsucker, Yellow-bellied, see *Sphyrapicus varius*
Sayornis saya, 86
Scardafella inca, 321–326
Scaup, Lesser, see *Aythya affinis*
Schardien, Bette J., see Jackson, Jerome A.
Schneider, David, and Mallory, Elizabeth P., Spring migration of shorebirds in Panama, 344–345
Screech-Owl, Tropical, see *Otus choliba*
Seiurus motacilla, 83
Selasphorus rufus, 209, 448
Serafin, J. A., The influence of diet composition upon growth and development of Sandhill Cranes, 427–434
Serinus canaria, 123, 235
Seymour, Norman, see Jamieson, Ian
Shearwater, Short-tailed, see *Puffinus tenuirostris*
Sooty, see *Puffinus griseus*
Shields, Gerald F., Comparative avian cytogenetics: A review, 45–58
Shoveler, Northern, see *Anas clypeata*
Shrike, Black-headed, see *Lanius schach*
Brown, see *Lanius cristatus*
Lesser Gray, see *Lanius minor*
Red-backed, see *Lanius collurio*
Sialia currucoides, 37
Sibley, Charles G., and Jon E. Ahlquist, The relationship of the Wrentit as indicated by DNA-DNA hybridization, 40–44
Siskin, Andean, see *Spinus* (*Carduelis*) *spinescens*
Eurasian, see *Carduelis spinus*
Pine, see *Carduelis pinus*
Sitta carolinensis, 83
Skimmer, Black, see *Rhynchops nigra*
Skua, South Polar, see *Catharacta maccormicki*
Smith, Jan P., see Wingfield, John C.
Smith, Jan Peter, Changes in blood levels of thyroid hormones in two species of passerine birds, 160–167
Smith, Thomas Bates, and Stanley A. Temple, Grenada Hook-billed Kites: Recent status and life history notes, 131
Snipe, Common, see *Capella gallinago*
Somateria mollissima, 101, 303, 420
spectabilis, 247
Sparrow, Baird's, see *Ammodramus bairdii*
Black-throated, see *Amphispiza bilineata*
Chipping, see *Spizella passerina*
European Tree, see *Passer montanus*
Five-striped, see *Aimophila quinquestriata*
Fox, see *Passerella iliaca*
Grasshopper, see *Ammodramus savannarum*
Harris', see *Zonotrichia querula*
Henslow's, see *Ammodramus henslowii*
House, see *Passer domesticus*
Lark, see *Chondestes grammacus*
LeConte's, see *Ammospiza leconteii*
Lincoln's, see *Melospiza lincolnii*
Rufous-collared, see *Zonotrichia capensis*
Rufous-crowned, see *Aimophila ruficeps*
Savannah, see *Passerculus sandwichensis*
Song, see *Melospiza melodia*
Spanish, see *Passer hispaniolensis*
Tree, see *Spizella arborea*
Vesper, see *Pooecetes grammineus*
White-crowned, see *Zonotrichia leucophrys*
White-throated, see *Zonotrichia albicollis*
Sphyrapicus varius, 448
Spinus (*Carduelis*) *spinescens*, 11
Spizella arborea, 47, 86, 152
passerina, 226
Stachyris nigriceps, 41
Starling, see *Sturnus vulgaris*
Steadman, David W., and Mary C. McKitrick, A Pliocene bunting from Chihuahua, Mexico, 240–241
Stelgidopteryx ruficollis, 86
Stercorarius longicaudus, 247
parasiticus, 247
pomarinus, 247
Sterna albifrons, 120
forsteri, 355
hirundo, 48
paradisaea, 49, 246, 247, 250
sandvicensis, 186
Stewart, Brent S., and Steven D. Kovach, Northern elephant seals and California sea lions: New hosts for Cattle Egrets, 243
Stiles, F. G., Aggressive and courtship displays of the male Anna's Hummingbird, 208–225
Stone, Timothy L., see Reinecke, Kenneth J.
Storer, Robert W., see Nuechterlein, Gary L.
Storm-Petrel, Fork-tailed, see *Oceanodroma furcata*
Leach's, see *Oceanodroma leucorhoa*
Streptopelia risoria, 123
Strix aluco, 50, 158
nebulosa, 50
uralensis, 50
Sturnella magna, 11, 152
neglecta, 86, 152
Sturnus vulgaris, 83, 86, 164, 338–339
Sula leucogaster, 340
Sunbird, Yellow-breasted, see *Nectarinia jugularis*
Swallow, Bank see *Riparia riparia*
Barn, see *Hirundo rustica*
Cliff, see *Petrochelidon pyrrhonota*
Rough-winged, see *Stelgidopteryx ruficollis*
Tree, see *Iridoprocne bicolor*
Swift, Chimney, see *Chaetura pelagica*
Sylvia atricapilla, 41
borin, 41, 43
cantillans, 43
conspicillata, 43
curraca, 41, 43
deserticola, 43
sarda, 43
undata, 43
Syrigma sibilatrix, 255–260
Syrmaticus soemmerringii, 340

T

Tachybaptus dominicus, 129, 353
novaehollandiae, 354
pelzelni, 352
Tanager, Scarlet, see *Piranga olivacea*

Teal, Blue-winged, see *Anas discors*
Cinnamon, see *Anas cyanoptera*
Green-winged, see *Anas crecca*
Temple, Stanley A., see Smith, Thomas Bates
Tern, Arctic, see *Sterna paradisea*
Common, see *Sterna hirundo*
Forster's, see *Sterna forsteri*
Least, see *Sterna albifrons*
Sandwich, see *Sterna sandvicensis*
Tewary, Prabha D., and Vinod Kumar, Photoperiodic responses of a subtropical migratory finch, the Black-headed Bunting (*Emberiza melanocephala*), 168–171
Thalurania furcata, 224
Thornbird, Streak-fronted, see *Phacellodomus striaticeps*
Thrasher, Brown, see *Toxostoma rufum*
Thrush, Creamy-bellied, see *Turdus amaurochalinus*
Hermit, see *Catharus guttatus*
Siberian Ground, see *Zoothera sibirica*
Song, see *Turdus philomelos*
Swainson's, see *Catharus ustulatus*
Varied, see *Ixoreus naevius*
Wood, see *Hylocichla mustelina*
Thryomanes bewickii, 86, 217, 235
Thryothorus ludovicianus, 83
Tit, Great, see *Parus major*
Marsh, see *Parus palustris*
Titmouse, Tufted, see *Parus bicolor*
Tit-Babbler, Striped, see *Macronous gularis*
Tit-Spinetail, Brown-capped, see *Leptasthenura fuliginiceps*
Towhee, Brown, see *Pipilo fuscus*
Rufous-sided, see *Pipilo erythrophthalmus*
Toxostoma rufum, 226
Treron phoenicoptera, 47
Trichastoma bicolor, 41
malaccense, 41
Tringa flavipes, 49
totanus, 49
Troglodytes aedon, 83, 86, 235, 395, 425
troglodytes, 86, 235
Trogon violaceus, 278
Turdoides caudatus, 41
Turdus albicollis, 278
amaurochalinus, 50
iliacus, 50
merula, 50
migratorius, 41, 50, 83, 86, 152, 340, 342, 445, 448
philomelos, 51
pilaris, 50
Turkey, see *Meleagris gallopavo*
Turnstone, Ruddy, see *Arenaria interpres*
Tyrannus tyrannus, 86, 343
verticalis, 86, 343

U

Upucerthia andaecola, 5
Upupa epops, 54
Uria aalge, 247, 250, 340
lomvia, 247, 250

V

Van Daele, Hilary A., see Van Daele, Lawrence J.
Van Daele, Lawrence J., and Hilary A. Van Daele, Factors affecting the productivity of Ospreys in west-central Idaho, 292–299
Vanellus vanellus, 47
van Riper, Charles III, see Kamil, Alan C.
Veery, see *Catharus fuscescens*
Vehrencamp, Sandra L., Body temperatures of incubating versus non-incubating Roadrunners, 203–207
Verdin, see *Auriparus flaviceps*
Vermivora celata, 395, 448
Violetear, Green, see *Colibri thalassinus*
Vireo flavifrons, 51, 83, 232
gilvus, 51
olivaceus, 41, 51, 83, 86
solitarius, 51
Vireo, Red-eyed see *Vireo olivaceus*
Solitary, see *Vireo solitarius*
Warbling, see *Vireo gilvus*
Yellow-throated, see *Vireo flavifrons*
Volatinia jacarina, 119
Vulture, Black, see *Coragyps atratus*
Cape, see *Gyps coprotheres*
Griffon, see *Gyps fulvus*
Turkey, see *Cathartes aura*

W

Wagtail, Large Pied, see *Motacilla maderaspatensis*
White, see *Motacilla alba*
Yellow, see *Motacilla flava*
Warbler, Audubon's, see *Dendroica coronata*
Cerulean, see *Dendroica cerulea*
Dartford, see *Sylvia undata*
Fantail, see *Cisticola juncidis*
Garden, see *Sylvia borin*
Kentucky, see *Oporornis formosus*
Orange-crowned, see *Vermivora celata*
Townsend's, see *Dendroica townsendi*
Yellow, see *Dendroica petechia*
Yellow-rumped, see *Dendroica coronata*
Waterthrush, Louisiana, see *Seiurus motacilla*
Waxwing, Cedar, see *Bombycilla cedrorum*
Weaver, Baya, see *Ploceus philippinus*
White-browned Sparrow, see *Plocepasser mahali*
Wehle, D. H. S., Color phases in the downy and juvenal plumages of Tufted Puffins, 444–445
Werschkul, David F., Nesting ecology of the Little Blue Heron: Promiscuous behavior, 381–384
Wheatear, Common, see *Oenanthe oenanthe*
Isabelline, see *Oenanthe isabellina*
Whimbrel, see *Numenius phaeopus*
Whitethroat, Lesser, see *Sylvia curruca*
Whittow, G. Causey, see Grant, Gilbert S.
Wigeon, see *Anas americana*
Willet, see *Catoptrophorus semipalmatus*
Williams, Sartor O., III, Notes on the breeding and occurrence of Western Grebes on the Mexican Plateau, 127–130
Willis, Edwin O., The behavior of Black-banded Woodcreepers (*Dendrocolaptes picumnus*), 272–285
Wingfield, John C., Jan P. Smith, and Donald S. Farner, Endocrine responses of White-crowned Sparrows to environmental stress, 399–409
Wittenberger, James F., Factors affecting how male and female Bobolinks apportion parental investments, 22–39
Woodcreeper, Barred, see *Dendrocolaptes certhia*
Black-banded, see *Dendrocolaptes picumnus*
Buff-throated, see *Xiphorhynchus guttatus*
Chestnut-rumped, see *Xiphorhynchus pardalotus*
Elegant, see *Xiphorhynchus elegans*
Hoffman's, see *Dendrocolaptes hoffmannsi*
Long-billed, see *Nasica longirostris*
Plain-brown, see *Dendrocincla fuliginosa*
Planalto, see *Dendrocolaptes platyrostris*
Red-billed, see *Hylexetastes perrotii*
Strong-billed, see *Xiphocolaptes promeropirhynchus*
Thrushlike, see *Dendrocincla turdina*
White-chinned, see *Dendrocincla merula*
Woodnymph, Fork-tailed, see *Thalurania furcata*
Woodpecker, Acorn, see *Melanerpes formicivorus*
Downy, see *Picoides pubescens*
Great Spotted, see *Picoides major*
Hairy, see *Picoides villosus*

Lesser Spotted, see *Picoides minor*
Pileated, see *Dryocopus pileatus*
Red-bellied, see *Melanerpes carolinus*
Red-headed, see *Melanerpes erythrocephalus*
Woodpigeon, see *Columba palumbus*
Wood-Hoopoe, Green, see *Phoeniculus purpureus*
Worthington, Andrea, see Bucher, Theresa L.
Wren, Bewick's, see *Thryomanes bewickii*
Canyon, see *Catherpes mexicanus*
Carolina, see *Thryothorus ludovicianus*
House, see *Troglodytes aedon*
Rock, see *Salpinctes obsoletus*
Winter, see *Troglodytes troglodytes*
Wrentit, see *Chamaea fasciata*
Wren-Babbler, Striped, see *Kenopia striata*

X

Xanthocephalus xanthocephalus, 16
Xiphocolaptes promeropirhynchus, 279
Xiphorhynchus elegans, 284
guttatus, 278
paradolotus, 276, 278

Y

Yellowhammer, see *Emberiza citrinella*
Yellowlegs, Lesser, see *Tringa flavipes*

Z

Zenaida asiatica, 242
macroura, 83, 86, 152, 242, 324
Zonotrichia albicollis, 42, 47, 52, 99, 445
capensis, 170
leucophrys, 52, 63, 86, 160–167, 217, 399–409, 410–419, 435–438
querula, 407
Zoothera sibirica, 50, 51

THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

VOLUME 84

PETER STETTENHEIM, *Editor*

CHARLES R. BLEM, MILLICENT S. FICKEN, MICHAEL D. KERN,
GARY D. SCHNELL, and SUSAN M. SMITH, *Associate Editors*

HELEN CURCIO, *Assistant Editor*

SUZANNE NOTHNAGLE, *Editorial Assistant*

LEBANON, NEW HAMPSHIRE
1982

CONTENTS, VOLUME 84, 1982

NUMBER 1 (February)

Speciation in the Carbonated Flower-Piercer (*Diglossa carbonaria*) Complex of the Andes — *Gary R. Graves* 1
Territoriality and Mating Behavior of the Male Brown-headed Cowbird — *J. A. Darley* 15
Factors Affecting how Male and Female Bobolinks Apportion Parental Investments — *James F. Wittenberger* 22
The Relationships of the Wrentit as Indicated by DNA-DNA Hybridization — *Charles G. Sibley* and *Jon E. Ahlquist* 40
Comparative Avian Cytogenetics: A Review — *Gerald F. Shields* 45
Reproduction and Nest Site Characteristics of American Coots at Different Altitudes in Colorado — *Warner P. Gorenzel, Ronald A. Ryder,* and *Clait E. Braun* 59
Nesting Ecology and Production of Western Grebes at Bear River Migratory Bird Refuge, Utah — *Mark L. Lindvall* and *Jessop B. Low* 66
Selective Use of Black-tailed Prairie Dog Towns by Mountain Plovers — *Craig J. Knowles, Charles J. Stoner,* and *Steven P. Gieb* 71
Effects of Urbanization on Avian Community Organization — *Steven R. Beissinger* and *David R. Osborne* 75
A Comparison of Foraging Behavior among Permanent, Summer, and Winter Resident Bird Groups — *Robert E. Lewke* 84
Energetics and Spread-winged Behavior of Anhingas in Florida — *Willard W. Hennemann, III* 91
The Migration of Common Loons through Eastern New York — *Paul Kerlinger* 97
Flock Size and the Organization of Behavioral Sequences in Juncos — *Thomas Caraco* 101
Nesting Biology, Seasonality, and Mating System of Malaysian Fantail Warblers — *Michael L. Avery* 106
Nest and Brood Attentiveness in Female Black Ducks — *James K. Ringelman, Jerry R. Longcore,* and *Ray B. Owen, Jr.* 110

SHORT COMMUNICATIONS

Within-territory Division of Foraging Space by Male and Female Amakihi (*Loxops virens*) — *Alan C. Kamil* and *Charles van Riper, III* 117
Territorial Behavior of the Blue-black Grassquit — *Bertram G. Murray, Jr.* 119
Site-specific Nest Defense Behavior of Black Skimmers and Least Terns — *Jerome A. Jackson, Bernard E. Rowe, Melinda S. Hetrick,* and *Bette J. Schardien* 120
Determination of Fresh Egg Mass during Natural Incubation — *Gilbert S. Grant, Charles V. Paganelli, Ted N. Pettit, G. Causey Whittow,* and *Hermann Rahn* 121
Hummingbirds Feeding on an Excretion Produced by Scale Insects — *Ernest P. Edwards* 122
Diurnal Rhythms in the Vocalizations of Budgerigars — *Robert Ferrell* and *Luis F. Baptista* 123
Bald Eagle Nesting Studies in Seymour Canal, Southeast Alaska — *John I. Hodges, Jr.* 125
Notes on the Breeding and Occurrence of Western Grebes on the Mexican Plateau — *Sartor O. Williams, III* 127
Broad-billed Prion at Mollendo, Peru: First Record for the Pacific Coast of South America — *R. A. Hughes* 130
Grenada Hook-billed Kites: Recent Status and Life History Notes — *Thomas Bates Smith* and *Stanley A. Temple* 131

INFORMATION FOR CONTRIBUTORS — 132
NEWS AND NOTES — 134
THE BULLETIN BOARD — 135
RECENT PUBLICATIONS — 14, 21, 39, 44, 58

NUMBER 2 (May)

Population Structure in Grassland Bird Communities during Winter — *Joseph A. Grzybowski* 137
Effect of Vegetative Cover on Foraging Site Selection by Swainson's Hawk — *Marc J. Bechard* 153
Changes in Blood Levels of Thyroid Hormones in Two Species of Passerine Birds — *Jan Peter Smith* 160
Photoperiodic Responses of a Subtropical Migratory Finch, the Black-headed Bunting (*Emberiza melanocephala*) — *Prabha D. Tewary* and *Vinod Kumar* 168
Egg Formation in Fiordland Crested Penguins (*Eudyptes pachyrhynchus*) — *C. R. Grau* 172
Timing of Nest Relief and its Effect on Breeding Success in Adelie Penguins (*Pygoscelis adeliae*) — *Lloyd S. Davis* 178
Human Disturbance and Nestling Behavior in Black-crowned Night Herons — *Katharine C. Parsons* and *Joanna Burger* 184
Behaviors Associated with Seasonal Reproduction and Long-term Monogamy in Canada Geese — *Thomas R. Akesson* and *Dennis G. Raveling* 188
Breeding Biology of Crested, Least, and Whiskered Auklets on Buldir Island, Alaska — *Eric P. Knudtson* and *G. Vernon Byrd* 197

Body Temperatures of Incubating versus Non-incubating Roadrunners ..... *Sandra L. Vehrencamp* 203
Aggressive and Courtship Displays of the Male Anna's Hummingbird ..... *F. Gary Stiles* 208
Singing Behavior of the Five-striped Sparrow ..... *Kathleen Groschupf* and *G. Scott Mills* 226

SHORT COMMUNICATIONS

Sense of Smell in the Black-chinned Hummingbird
Kenneth M. Goldsmith and *Timothy H. Goldsmith* 237
Aerial Talon-grappling in Northern Harriers ..... *T. H. Craig, E. H. Craig,* and *Jeffrey S. Marks* 239
A Pliocene Bunting from Chihuahua, Mexico ..... *David W. Steadman* and *Mary C. McKitrick* 240
A Second Record of Pleistocene Passenger Pigeon from California ..... *Robert M. Chandler* 242
Northern Elephant Seals and California Sea Lions: New Hosts for Cattle Egrets
Brent S. Stewart and *Steven D. Kovach* 243
Oldsquaw Record from Sinaloa, Mexico ..... *Gary W. Kramer* 243
NEWS AND NOTES 244
THE BULLETIN BOARD 244
RECENT PUBLICATIONS 167, 171, 177, 183, 187, 196, 202, 225, 236

NUMBER 3 (August)

Spring Distribution of Marine Birds in the Gulf of Alaska ..... *Craig S. Harrison* 245
Behavior of Whistling and Capped Herons in the Seasonal Savannas of Venezuela and Argentina
James A. Kushlan, James A. Hancock, J. Pinowski, and *B. Pinowska* 255
Ecology and Breeding Habits of the Savanna Hawk in the Llanos of Venezuela ..... *William J. Mader* 261
The Behavior of Black-banded Woodcreepers (*Dendrocolaptes picumnus*) ..... *Edwin O. Willis* 272
Niche Convergence in *Empidonax* Flycatchers ..... *Robert A. Frakes* and *Richard E. Johnson* 286
Factors Affecting the Productivity of Ospreys Nesting in West-central Idaho
Lawrence J. Van Daele and *Hilary A. Van Daele* 292
Body Weight and Composition Changes and Adaptations for Breeding in Wood Ducks
Ronald D. Drobney 300
Dispersal in a Population of White-browed Sparrow Weavers ..... *Dale M. Lewis* 306
Superterritoriality in Tree Swallows: A Reexamination ..... *Raleigh J. Robertson* and *H. Lisle Gibbs* 313
Recognition Characteristics in Covey Dialects of Bobwhite Quail *E. D. Bailey* and *James A. Baker* 317
Seasonal Calling, Foraging, and Flocking of Inca Doves at Galveston, Texas ..... *W. B. Quay* 321
Nocturnal Hypothermia and Oxygen Consumption in Manakins
Theresa L. Bucher and *Andrea Worthington* 327
Seasonal Water Turnover Rates and Body Water Volumes in Desert Chukars
Philip U. Alkon, Berry Pinshow, and *A. Allan Degen* 332

SHORT COMMUNICATIONS

Observations on Handling Procedures and Composition of European Starling Eggs
Robert E. Ricklefs 338
Estimating the Initial Density of Birds' Eggs ..... *H. Rahn, Phyllis Parisi,* and *C. V. Paganelli* 339
Unusual Behaviors at a Robin's Nest
Gloria M. D'Agostino, S. W. Eaton, and *Lorraine E. Giovinazzo* 342
Nesting Associations between Passerines and Birds of Prey in Central North Dakota
Paul M. Konrad and *David S. Gilmer* 343
Spring Migration of Shorebirds in Panama ..... *David Schneider* and *Elizabeth P. Mallory* 344
NEWS AND NOTES 346
RECENT PUBLICATIONS 245
THE BULLETIN BOARD 347

NUMBER 4 (November)

The Pair-formation Displays of the Western Grebe ..... *Gary L. Nuechterlein* and *Robert W. Storer* 350
Displays, Vocalizations and Breeding Biology of the Great Grebe (*Podiceps major*)
Eric A. Greenquist 370
Nesting Ecology of the Little Blue Heron: Promiscuous Behavior ..... *David F. Werschkul* 381
Wintering Biology of Ruby-crowned Kinglets in the Lower Colorado River Valley
Andrew W. Laurenzi, Bertin W. Anderson and *Robert D. Ohmart* 385
Endocrine Responses of White-crowned Sparrows to Environmental Stress
John C. Wingfield, Jan P. Smith and *Donald S. Farner* 399
Physiological Preparation for Autumnal Migration in White-crowned Sparrows
Michael C. Moore, Richard S. Donham and *Donald S. Farner* 410
Seasonal Carcass Composition and Energy Balance of Female Black Ducks in Maine
Kenneth J. Reinecke, Timothy L. Stone and *Ray B. Owen, Jr.* 420
The Influence of Diet Composition upon Growth and Development of Sandhill Cranes
J. A. Serafin 427
Amino Acid Composition of the Plumage of the White-crowned Sparrow
Mary E. Murphy and *James R. King* 435

SHORT COMMUNICATIONS

Time and Activity Budgets of Ospreys Nesting in Northeastern Nova Scotia
Ian Jamieson, Norman Seymour and *Robert P. Bancroft* 439
The Thermal Nest Environment and Parental Behavior of a Burrowing Bird, the Bank Swallow
Janet H. Ellis 441
Botfly (Diptera, Muscidae) Parasitism of Nesting Aplomado Falcons ..... *Dean P. Hector* 443
Color Phases in the Downy and Juvenal Plumages of Tufted Puffins ..... *D. H. S. Wehle* 444
Vocalizations of Female Northern Orioles ..... *L. David Beletsky* 445
Morning versus Evening Detectability of Southeast Alaskan Birds
Winifred B. Kessler and *Kathleen A. Milne* 447
Birds of the Pleistocene American Falls Local Fauna, Idaho ..... *Jonathan J. Becker* 449
RECENT PUBLICATIONS 369, 398, 409, 419
NEWS AND NOTES 450
THE BULLETIN BOARD 451
TREASURER'S REPORT 452
STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION 453
INDEX TO VOLUME 84 454